

Appl. No. 10/031,740

Amendment dated March 24, 2004

Reply to Non-Final Office Action of September 24, 2003

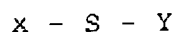
AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.-12. (Canceled)

13. (Currently amended) A composition for coloring keratin fibers comprising a hybrid dye corresponding to formula (I):



(I)

wherein X is a group derived from a substantive dye;

wherein Y is a group derived from ~~(i) a primary intermediate oxidation dye precursor, (ii) a secondary intermediate oxidation dye precursor, or (iii) a precursor of melanin that is a derivative of an indole or an indoline; and~~

wherein S is a direct bond or a spacer group.

14. (Previously presented) The composition of claim 13 further comprising at least one primary intermediate oxidation dye precursor or secondary intermediate oxidation dye precursor, or combinations thereof.

15. (Previously presented) The composition of claim 13 further comprising a substantive dye.

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16. (Canceled)

17. (Previously presented) The composition of claim 13 further comprising at least one compound selected from a primary intermediate oxidation dye precursor, a secondary intermediate oxidation dye precursor, a substantive dye, or a precursor of melanin that is a derivative of an indole or a derivative of an indoline; or combinations thereof.

18. (Previously presented) The composition of claim 17 further comprising at least one additive selected from a surfactant, a cationic polymer, an amphopolymer, an anionic polymer, or a nonionic polymer; or combinations thereof.

19. (Previously presented) The composition of claim 13 further comprising a surfactant.

20. (Previously presented) The composition of claim 19, wherein the surfactant comprises an anionic surfactant.

21. (Previously presented) The composition of claim 13 further comprising at least one cationic polymer or an amphopolymer, or combinations thereof.

22. (Previously presented) The composition of claim 13 further comprising at least one anionic polymer or nonionic polymer, or combinations thereof.

23. (Previously presented) The composition of claim 13 wherein X is derived from an azo dye, 3-nitroaniline, 2-amino-4-nitroaniline, 2-nitro-1,4-diaminobenzene, a

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derivative of 2-nitro-1,4-diaminobenzene, a derivative of 4-nitro-2-aminophenol, a derivative of 2-nitro-4-aminophenol, a derivative of 2-nitroaniline, a derivative of quinoxaline, a derivative of anthraquinone, or a derivative of naphthoquinone.

24. (Currently amended) The composition of claim 23 wherein Y is derived from ~~p-phenylenediamine, p-aminophenol, 3,5-dimethoxybenzene, 1-naphthylamine, or 5,6-dimethoxyindoline.~~

25. (Previously presented) The composition of claim 24 wherein S is a direct bond or an alkylene group having 1 to 8 carbon atoms.

26.-28. (Canceled)

29. (Currently amended) The method of claim 31 ~~28~~ wherein Y is derived from 3-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, 1,3-diaminobenzene or a derivative thereof, 1,2-diaminobenzene or a derivative thereof, dihydroxybenzene or a derivative thereof, trihydroxybenzene or a derivative thereof, a derivative of pyridine, a derivative of naphthalene, a derivative of morpholine, a derivative of quinoxaline, a derivative of pyrazole, a derivative of methylenedioxybenzene, 1,4-diaminobenzene or a derivative thereof, 1,2-diamino benzene or a derivative thereof, 4-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, a heterocyclic hydrazone, a pyrimidine derivative, or an

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indole or an indoline derivative containing at least one hydroxy or amino group substituent.

30. (Previously presented) The method of claim 29 wherein X is derived from an azo dye, 3-nitroaniline, 2-amino-4-nitroaniline, 2-nitro-1,4-diaminobenzene, a derivative of 2-nitro-1,4-diaminobenzene, a derivative of 4-nitro-2-aminophenol, a derivative of 2-nitro-4-aminophenol, a derivative of 2-nitroaniline, a derivative of quinoxaline, a derivative of anthraquinone, or a derivative of naphthoquinone.

31. (Currently amended) A method of coloring keratin fibers comprising applying to keratin fibers a the hybrid dye of claim 28 to keratin fibers corresponding to formula (I):



wherein X is a group derived from a substantive dye;

wherein Y is a group derived from (i) a primary intermediate oxidation dye precursor, (ii) a secondary intermediate oxidation dye precursor, or (iii) a precursor of melanin that is a derivative of an indoline; and

wherein S is a direct bond or a spacer group.

32. (Currently amended) A method of coloring human skin comprising applying to human skin a the hybrid dye of claim 28 to human skin corresponding to formula (I):



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wherein X is a group derived from a substantive dye;

wherein Y is a group derived from (i) a primary intermediate oxidation dye precursor, (ii) a secondary intermediate oxidation dye precursor, or (iii) a precursor of melanin that is a derivative of an indole or an indoline; and

wherein S is a direct bond or a spacer group.

33. (New) A composition for coloring keratin fibers comprising a hybrid dye corresponding to formula (I):



wherein X is a group derived from a substantive dye;

wherein Y is a group derived from (i) a primary intermediate oxidation dye precursor, or (ii) a secondary intermediate oxidation dye precursor, wherein S is a direct bond or a spacer group; and

at least one oxidizing agent.

34. (New) The composition of claim 33 further comprising at least one compound selected from a primary intermediate oxidation dye precursor, a secondary intermediate oxidation dye precursor, a substantive dye, or a precursor of melanin that is a derivative of an indole or a derivative of an indoline; or combinations thereof.

35. (New) The composition of claim 33, wherein the oxidizing agent is selected from hydrogen peroxide or an

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addition product thereof onto urea, melamine or sodium borate.

36. (New) The composition of claim 33 further comprising at least one additive selected from a surfactant, a cationic polymer, an amphopolymer, an anionic polymer, or a nonionic polymer; or combinations thereof.

37. (New) The composition of claim 33 further comprising a surfactant.

38. (New) The composition of claim 37, wherein the surfactant comprises an anionic surfactant.

39. (New) The composition of claim 33 wherein X is derived from an azo dye, 3-nitroaniline, 2-amino-4-nitroaniline, 2-nitro-1,4-diaminobenzene, a derivative of 2-nitro-1,4-diaminobenzene, a derivative of 4-nitro-2-aminophenol, a derivative of 2-nitro-4-aminophenol, a derivative of 2-nitroaniline, a derivative of quinoxaline, a derivative of anthraquinone, or a derivative of naphthoquinone.

40. (New) The composition of claim 39 wherein Y is derived from 3-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, 1,3-diaminobenzene or a derivative thereof, 1,2-diaminobenzene or a derivative thereof, dihydroxybenzene or a derivative thereof, trihydroxybenzene or a derivative thereof, a derivative of pyridine, a derivative of naphthalene, a derivative of morpholine, a derivative of quinoxaline, a derivative of pyrazole, a derivative of methylenedioxybenzene, 1,4-diaminobenzene or

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a derivative thereof, 1,2-diamino benzene or a derivative thereof, 4-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, a heterocyclic hydrazone or a pyrimidine derivative.

41. (New) The method of claim 32 wherein Y is derived from 3-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, 1,3-diaminobenzene or a derivative thereof, 1,2-diaminobenzene or a derivative thereof, dihydroxybenzene or a derivative thereof, trihydroxybenzene or a derivative thereof, a derivative of pyridine, a derivative of naphthalene, a derivative of morpholine, a derivative of quinoxaline, a derivative of pyrazole, a derivative of methylenedioxybenzene, 1,4-diaminobenzene or a derivative thereof, 1,2-diamino benzene or a derivative thereof, 4-aminophenol or a derivative thereof, 2-aminophenol or a derivative thereof, a heterocyclic hydrazone, a pyrimidine derivative, or an indole or an indoline derivative containing at least one hydroxy or amino group substituent.

42. (New) The method of claim 42 wherein X is derived from an azo dye, 3-nitroaniline, 2-amino-4-nitroaniline, 2-nitro-1,4-diaminobenzene, a derivative of 2-nitro-1,4-diaminobenzene, a derivative of 4-nitro-2-aminophenol, a derivative of 2-nitro-4-aminophenol, a derivative of 2-nitroaniline, a derivative of quinoxaline, a derivative of anthraquinone, or a derivative of naphthoquinone.

43. (New) The hybrid dye 1-((3-((4-aminophenyl)-amino)-propyl)-amino)-anthracene-9,10-dione.

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44. (New) The hybrid dye 1-Amino-4-((3-((4-aminophenyl)-amino)-propyl)-amino)-anthracene-9,10-dione-2-sulfonic acid.

45. (New) The hybrid dye 4-((2-((4-amino-2-nitrophenyl)-amino)-ethyl)-amino)-phenol.

46. (New) The hybrid dye 4-((2-((2,4-dinitrophenyl)-amino)-ethylamino)-phenol sulfate.

47. (New) The hybrid dye (2-((2-amino-4-nitrophenyl)-amino)-ethyl)-naphthylamine.

48. (New) The hybrid dye (4-amino-2-nitrophenyl)-((3,5-dimethoxyphenyl)-methyl)-amine.

49. (New) The hybrid dye 2-(5,6-dimethoxyindolyl)-5-nitrophenylamine/4-(5,6-dimethoxyindolyl)-3-nitrophenylamine.